

Appl. No. 10/027,716
Response Dated July 14, 2006
Reply to Office Action of March 14, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A method to configure a network device, comprising:
receiving a request to configure a first permanent virtual circuit (PVC) between a digital subscriber line (DSL) device and a DSL access module (DSLAM); and
automatically configuring said first PVC using a list of probe values sent with test packets to probe for configuration information for said PVC, and using said configuration information to configure said first PVC, wherein said probe values and said configuration information comprise a virtual channel identifier (VCI) and a virtual path identifier (VPI).
2. (Original) The method of claim 1, wherein said automatically configuring comprises:
sending test packets to said DSLAM using said probe values;
receiving a response packet to one of said test packets;
retrieving said configuration information from said response packet; and
configuring said PVC using said retrieved configuration information.

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3. (Original) The method of claim 2, wherein for each probe value in said probe table said sending comprises:

retrieving a probe value from said list of probe values, wherein said probe value represents a virtual circuit;

enabling said virtual circuit; and

sending a test packet over said virtual circuit.

4. (Original) The method of claim 3, further comprising disabling each virtual circuit that did not receive a response packet.

5. (Original) The method of claim 1, further comprising:

receiving a request to configure a second PVC for said DSL device;

receiving configuration information for said second PVC; and

configuring said second PVC using said configuration information.

6. (Canceled).

7. (Original) The method of claim 1, further comprising:

determining that a terminating condition has occurred prior to automatically configuring said first PVC;

sending a message that said first PVC was not configured to a user; and

receiving said configuration information for said first PVC from a user.

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8. (Currently Amended) A system to configure a network device, comprising:
- a digital subscriber line (DSL) customer premise equipment (CPE);
 - a DSL access module (DSLAM) connected to said DSL CPE; and
 - a DSL probing module to use a list of probe values sent with test packets to probe for configuration information for use in automatically configuring a permanent virtual circuit (PVC) between said DSL CPE and said DSLAM, wherein said probe values and said configuration information comprise a virtual channel identifier (VCI) and a virtual path identifier (VPD).
9. (Original) The system of claim 8, wherein said DSL CPE comprises a DSL CPE consisting essentially one of the following: a DSL/asynchronous transfer mode (ATM) router, an asymmetric DSL (ADSL)/ATM router, a DSL/ATM bridge, an ADSL/ATM bridge, a DSL modem, and an ADSL modem.
10. (Canceled).
11. (Currently Amended) A probing module for a network device, comprising:
- an event management module to automatically send test packets using probe values from a digital subscriber line (DSL) device to a DSL access module (DSLAM);
 - a detection module to detect a packet received in response to at least one of said test packets; and

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an extraction module to retrieve configuration information from said received packet, wherein said probe values and said configuration information comprise a virtual channel identifier (VCI) and a virtual path identifier (VPI).

12. (Original) The probing module of claim 11, further comprising a configuration module to configure a permanent virtual connection between said DSL and said DSLAM using said configuration information.

13. (Canceled).

14. (Currently Amended) An article comprising:

a storage medium;

said storage medium including stored instructions that, when executed by a processor, result in configuring a network device by receiving a request to configure a first permanent virtual circuit (PVC) between a digital subscriber line (DSL) device and a DSL access module (DSLAM), and automatically configuring said first PVC using a list of probe values sent with test packets to probe for configuration information for said PVC, and using said configuration information to configure said first PVC, wherein said probe values and said configuration information may comprise a virtual channel identifier (VCI) and a virtual path identifier (VPI).

15. (Original) The article of claim 14, wherein the stored instructions, when executed by a processor, result in automatically configuring said first PVC by sending test packets

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to said DSLAM using said probe values, receiving a response packet to one of said test packets, retrieving said configuration information from said response packet, and configuring said PVC using said retrieved configuration information.

16. (Original) The article of claim 15, wherein the stored instructions, when executed by a processor, result in sending test packets, for each probe value in said probe table, by retrieving a probe value from said list of probe values, wherein said probe value represents a virtual circuit, enabling said virtual circuit, and sending a test packet over said virtual circuit.

17. (Original) The article of claim 16, wherein the stored instructions, when executed by a processor, further result in disabling each virtual circuit that did not receive a response packet.

18. (Original) The article of claim 14, wherein the stored instructions, when executed by a processor, further result in receiving a request to configure a second PVC for said DSL device, receiving configuration information for said second PVC, and configuring said second PVC using said configuration information.

19. (Original) The article of claim 14, wherein the stored instructions, when executed by a processor, further result in determining that a terminating condition has occurred prior to automatically configuring said first PVC, sending a message that said first PVC

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was not configured to a user, and receiving said configuration information for said first
PVC from a user.